

QUANTUM LILYPADS AND AMPLIFIERS AND METHODS OF USE**Abstract of the Disclosure**

A nanocomposite having enhanced energy conversion between thermal, electron, phonons, and photons energy states. The composition comprises a synergistic blend of
10 nanoscale powders wherein the powders have nanoscale layered surface modifiers and a conductive medium. The powders and conductive medium are optionally altered through non-thermal modifiers and made into energy conversion devices.